

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: 11188036 A
(43) Date of publication of application: 13.07.1999

(51) Int. Cl A61B 8/12
A61B 1/00

(21) Application number: 10284546
(22) Date of filing: 06.10.1998
(30) Priority: 06.10.1997 EP 97 97203072

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(54) DEVICE OF CREATING IMAGE OF LUMINA,
OTHER CELOM AND TISSUE SURROUNDING

(57) Abstract:

PROBLEM TO BE SOLVED: To allow a precisely imaging a clearly defined tissue layer with high resolution.

SOLUTION: In order to create an image of a lumina and other celoma and a tissue surrounding them, a converter is inserted into the lumina, this device sends ultrasonic signals and echo signals are collected and processed to create an image. The following steps are taken in this method. a) An echo signal is gained in a selected direction from a tissue under the state of the fixed mechanical stress. b) The same echo signal is gained after changing the state of the fixed mechanical stress. c) The boundary between a lumina and the tissue is determined. d) The echo signals are compared

in order to get parameter showing tissue stiffness. e) The same steps are taken in various directions. f) An ordinary echo image is displayed out of the echo signal in step a). g) The tissue stiffness is put on the echo image along the boundary between the lumina and the tissue as a coded line.

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